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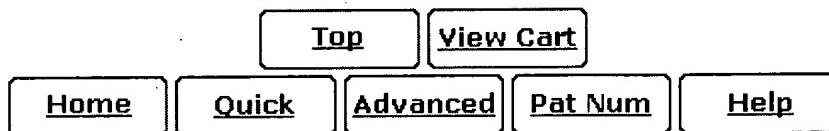
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"genetic algorithm" and marketing

PAT. NO. Title

- 1 [7,111,045](#) **T** Image distribution system, and image distribution method and program therefor
- 2 [7,072,863](#) **T** Forecasting using interpolation modeling
- 3 [7,058,517](#) **T** Methods for obtaining and using haplotype data
- 4 [7,043,463](#) **T** Methods and systems for interactive evolutionary computing (IEC)
- 5 [7,043,461](#) **T** Process and system for developing a predictive model
- 6 [7,024,409](#) **T** System and method for transforming data to preserve privacy where the data transform module suppresses the subset of the collection of data according to the privacy constraint
- 7 [7,016,882](#) **T** Method and apparatus for evolutionary design
- 8 [7,007,249](#) **T** Method for automatically generating checkers for finding functional defects in a description of circuit
- 9 [7,006,981](#) **T** Assortment decisions
- 10 [6,968,315](#) **T** Method and apparatus for advertising over a communications network
- 11 [6,965,867](#) **T** Methods and apparatus for allocating, costing, and pricing organizational resources
- 12 [6,961,688](#) **T** System and method for performing compound computational experiments
- 13 [6,960,135](#) **T** Payout distributions for games of chance
- 14 [6,941,287](#) **T** Distributed hierarchical evolutionary modeling and visualization of empirical data
- 15 [6,931,326](#) **T** Methods for obtaining and using haplotype data
- 16 [6,925,457](#) **T** Methods and apparatus for querying a relational data store using schema-less queries
- 17 [6,910,017](#) **T** Inventory and price decision support
- 18 [6,885,983](#) **T** Method for automatically searching for functional defects in a description of a circuit
- 19 [6,876,894](#) **T** Forecast test-out of probed fabrication by using dispatching simulation method
- 20 [6,856,992](#) **T** Methods and apparatus for real-time business visibility using persistent schema-less data storage
- 21 [6,850,252](#) **T** Intelligent electronic appliance system and method
- 22 [6,819,746](#) **T** Expert system for loop qualification of XDSL services

- 23 [6,810,118](#) T Service creation in an intelligent network  
24 [6,792,399](#) T Combination forecasting using clusterization  
25 [6,658,467](#) T Provision of informational resources over an electronic network  
26 [6,629,097](#) T Displaying implicit associations among items in loosely-structured data sets  
27 [6,609,229](#) T Method for automatically generating checkers for finding functional defects in a description of a circuit  
28 [6,606,615](#) T Forecasting contest  
29 [6,490,582](#) T Iterative validation and sampling-based clustering using error-tolerant frequent item sets  
30 [6,473,084](#) T Prediction input  
31 [6,446,055](#) T Process control  
32 [6,412,012](#) T System, method, and article of manufacture for making a compatibility-aware recommendations to a user  
33 [6,408,263](#) T Management training simulation method and system  
34 [6,393,406](#) T Method of and system for valving elements of a business enterprise  
35 [6,321,205](#) T Method of and system for modeling and analyzing business improvement programs  
36 [6,278,962](#) T Hybrid linear-neural network process control  
37 [6,246,972](#) T Analyzer for modeling and optimizing maintenance operations  
38 [6,236,977](#) T Computer implemented marketing system  
39 [6,236,955](#) T Management training simulation method and system  
40 [6,119,094](#) T Automated system for identifying alternate low-cost travel arrangements  
41 [6,112,304](#) T Distributed computing architecture  
42 [6,110,214](#) T Analyzer for modeling and optimizing maintenance operations  
43 [6,032,123](#) T Method and apparatus for allocating, costing, and pricing organizational resources  
44 [6,029,139](#) T Method and apparatus for optimizing promotional sale of products based upon historical data  
45 [5,970,064](#) T Real time control architecture for admission control in communications network  
46 [5,877,954](#) T Hybrid linear-neural network process control  
47 [5,701,400](#) T Method and apparatus for applying if-then-else rules to data sets in a relational data base and generating from the results of application of said rules a database of diagnostics linked to said data sets to aid executive analysis of financial data  
48 [4,881,178](#) T Method of controlling a classifier system



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IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

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IEEE STD IEEE Standard

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Relevance scale **1 Real-world applications: poster: Genetic algorithms to optimise the time to make stock market investment**

David de la Fuente, Alejandro Garrido, Jaime Laviada, Alberto Gómez

July 2006 **Proceedings of the 8th annual conference on Genetic and evolutionary computation GECCO '06****Publisher:** ACM PressFull text available:  [pdf\(215.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The application of Artificial Intelligence described in this article is intended to resolve the issue of speculation on the stock market. Genetic Algorithms is the technique that is used, with the article focusing on the different ways that chromosomes can be designed and on how the pertinent evaluation mechanism is established. The problem will be based on the speculation systems that are typical of Technical Analysis.

**Keywords:** chartism, genetic algorithms, stock exchange speculation, technical analysis**2 Evolutionary algorithms in data mining: multi-objective performance modeling for direct marketing**

Siddhartha Bhattacharyya

August 2000 **Proceedings of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining****Publisher:** ACM PressFull text available:  [pdf\(115.20 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** Pareto-optimal models, data mining, database marketing, evolutionary computation, multiple objectives**3 Multiagent systems and electronic markets track: Learning inventory management strategies for commodity supply chains with customer satisfaction**

Jeroen van Luin, Han La Poutré, J. Will. M. Bertrand

August 2006 **Proceedings of the 8th international conference on Electronic commerce: The new e-commerce: innovations for conquering current barriers, obstacles and limitations to conducting successful business on the internet ICEC '06****Publisher:** ACM PressFull text available:  [pdf\(846.65 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper, we look at a supply chain of commodity goods where customer demand is

uncertain and partly based on reputation, and where raw material replenishment is uncertain in both the amount that is available, as well as the price to pay. Successful participation in such supply chains requires a good inventory management strategy. Actors must find a balance between inventory costs and client satisfaction: structurally high inventory costs reduces the profit, but customers that are faced wit ...

#### **4 Dynamic market-driven allocation of network resources using genetic algorithms in a competitive electronic commerce marketplace**

Jian Ye, Symeon Papavassiliou

November 2001 **International Journal of Network Management**, Volume 11 Issue 6

Publisher: John Wiley & Sons, Inc.

Full text available:  pdf(195.94 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we propose a practical algorithm which finds cost-efficient routes from Service Provider (SP) to Content Provider (CP) dynamically in a multi-operator networking environment, using Genetic Algorithm (GA) concepts. The proposed algorithm is a kind of stochastic algorithm searching process in the solution space by emulating biological selection and reproduction.

#### **5 Neural networks, financial trading and the efficient markets hypothesis**

Andrew Skabar, Ian Cloete

January 2002 **Australian Computer Science Communications , Proceedings of the twenty-fifth Australasian conference on Computer science - Volume 4 ACSC '02**, Volume 24 Issue 1

Publisher: Australian Computer Society, Inc., IEEE Computer Society Press

Full text available:  pdf(927.96 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The *efficient markets hypothesis* asserts that the price of an asset reflects all of the information that can be obtained from past prices of the asset. A direct corollary of this hypothesis is that stock prices follow a random walk, and that any profits derived from timing the market are due entirely to chance. In the absence of any ability to predict the market, the most appropriate strategy---according to proponents of the efficient markets hypothesis---is to buy and hold. In this paper ...

**Keywords:** financial trading, genetic algorithms, neural networks

#### **6 A market-based rule learning system**

QingQing Zhou, Martin Purvis

January 2004 **Proceedings of the second workshop on Australasian information security, Data Mining and Web Intelligence, and Software Internationalisation - Volume 32 ACSW Frontiers '04**

Publisher: Australian Computer Society, Inc.

Full text available:  pdf(110.85 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, a 'market trading' technique is integrated with the techniques of rule discovery and refinement for data mining. A classifier system-inspired model, the market-based rule learning (MBRL) system is proposed and its capability of evolving and refining rules is investigated. Experimental results indicate that the MBRL system is a potentially useful additional tool that can be used to refine neural network extracted rules and possibly discover and add some new, better performance rule ...

**Keywords:** data mining, market-based, rule learning

#### **7 Predictive modeling in automotive direct marketing: tools, experiences and open issues**

Wendy Gersten, Rüdiger Wirth, Dirk Arndt

August 2000 **Proceedings of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining**

Publisher: ACM Press

Full text available:  pdf(334.76 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** CRISP-DM, Clementine, data mining process, direct marketing, evaluation measures

8 Is more information better? The effect of traders' irrational behavior on an artificial stock market

Wei T. Yue, Alok R. Chaturvedi, Shailendra Mehta

December 2000 **Proceedings of the twenty first international conference on Information systems**

Publisher: Association for Information Systems

Full text available:  pdf(189.28 KB) Additional Information: [full citation](#), [references](#), [index terms](#)



9 Market-based recommendation: Agents that compete for consumer attention

 Sander M. Bohte, Enrico Gerding, Han La Poutré

November 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 4

Publisher: ACM Press

Full text available:  pdf(616.32 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



The amount of attention space available for recommending suppliers to consumers on e-commerce sites is typically limited. We present a competitive distributed recommendation mechanism based on adaptive software agents for efficiently allocating the "consumer attention space," or banners. In the example of an electronic shopping mall, the task is delegated to the individual shops, each of which evaluates the information that is available about the consumer and his or her interests (e.g. keywor ...

**Keywords:** ACE, agent-based computational economics, competitive multi-agent systems, electronic markets, learning agents, market-based programming, recommendation systems

10 Evaluation of prediction models for marketing campaigns

 Saharon Rosset, Einat Neumann, Uri Eick, Nurit Vatnik, Izhak Idan

August 2001 **Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining**

Publisher: ACM Press

Full text available:  pdf(634.58 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



We consider prediction-model evaluation in the context of marketing-campaign planning. In order to evaluate and compare models with specific campaign objectives in mind, we need to concentrate our attention on the appropriate evaluation-criteria. These should portray the model's ability to score accurately and to identify the relevant target population. In this paper we discuss some applicable model-evaluation and selection criteria, their relevance for campaign planning, their robustness under ...

**Keywords:** Confidence Intervals, Marketing Campaigns, Model Evaluation, Performance Measures

11 E-marketing & e-businesses: Evolutionary online services

 Alfredo Milani, Silvia Suriani, Stefano Marcugini

August 2005 **Proceedings of the 7th international conference on Electronic commerce ICEC '05**

Publisher: ACM Press



Full text available:  pdf(374.05 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper present a technique based on genetic algorithms for generating online adaptive services. Online adaptive systems provide flexible services to a mass of clients/users for maximizing some system goals; they dynamically adapt the form and the content of the issued services while the population of clients evolve over time. The idea of online genetic algorithms (online GAs) is to use the online clients response behavior as a fitness function in order to produce the next generation of servi ...

**Keywords:** adaptive models, evolutionary computation, genetic algorithms, online consumer behavior

## 12 Multi-Attribute Dynamic Pricing for Online Markets Using Intelligent Agents

Prithviraj (Raj) Dasgupta, Yoshitsugu Hashimoto

July 2004 **Proceedings of the Third International Joint Conference on Autonomous Agents and Multiagent Systems - Volume 1**

**Publisher:** IEEE Computer Society

Full text available:  pdf(268.90 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Intelligent agents called pricebots provide a convenient mechanism for implementing automated dynamic pricing algorithms for sellers in an online economy. Pricebots enable an online seller to dynamically calculate a competitive price for a product in response to variations in market parameters such as competitors' prices and consumers' purchase preferences. Previous research on pricebot mediated pricing makes certain simplifying assumptions of online markets such as providing sellers with compl ...

**Keywords:** Agent mediated e-commerce, dynamic pricing, collaborative filtering

## 13 Real-world applications: papers: Designing safe, profitable automated stock trading agents using evolutionary algorithms

Harish Subramanian, Subramanian Ramamoorthy, Peter Stone, Benjamin J. Kuipers

July 2006 **Proceedings of the 8th annual conference on Genetic and evolutionary computation GECCO '06**

**Publisher:** ACM Press

Full text available:  pdf(241.49 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Trading rules are widely used by practitioners as an effective means to mechanize aspects of their reasoning about stock price trends. However, due to the simplicity of these rules, each rule is susceptible to poor behavior in specific types of adverse market conditions. Naive combinations of such rules are not very effective in mitigating the weaknesses of component rules. We demonstrate that sophisticated approaches to combining these trading rules enable us to overcome these problems and gain ...

**Keywords:** application, finance, fitness evaluation, genetic algorithms, genetic programming

## 14 Representing and Simulating Consumers' Behavior in an Information Sensitive Market Place

Filippo Neri

July 2004 **Proceedings of the Third International Joint Conference on Autonomous Agents and Multiagent Systems - Volume 3**

**Publisher:** IEEE Computer Society

Full text available:  pdf(70.02 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

An agent based tool for analysing markets behaviour under several rate of information diffusion is described. This methodology allows for the study of tradeoffs among several variables of information like product advertisement efforts, consumers' memory span, and passing word among friends in determining market shares. Insights gained by using this

approach on an hypothetical economy are reported.

**15 Real-world applications: papers: Evolutionary optimization of ZIP60: a controlled explosion in hyperspace**

Dave Cliff

July 2006 **Proceedings of the 8th annual conference on Genetic and evolutionary computation GECCO '06**

Publisher: ACM Press

Full text available:  pdf(346.20 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The "ZIP" adaptive trading algorithm has been demonstrated to outperform human traders in experimental studies of continuous double auction (CDA) markets. The original ZIP algorithm requires the values of eight control parameters to be set correctly. A new extension of the ZIP algorithm, called ZIP60, requires the values of 60 parameters to be set correctly. ZIP60 is shown here to produce significantly better results than the original ZIP (called "ZIP8" hereafter). A genetic algorithm (GA) is us ...

**Keywords:** ZIP8 ZIP60, Zero-Intelligence-Plus (ZIP) Traders, algorithmic trading, auction markets, automated market-mechanism design

**16 Manufacturing applications: Simulation optimization in manufacturing analysis: a simulation-optimization approach using genetic search for supplier selection**

Hongwei Ding, Lyès Benyoucef, Xiaolan Xie

December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**

Publisher: Winter Simulation Conference

Full text available:  pdf(339.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The paper presents a simulation-optimization approach using genetic algorithm to the supplier selection problem. The problem consists in selecting a portfolio of suppliers from a set of pre-selected candidates. The supplier selection is a multi-criteria problem that includes both qualitative and quantitative criteria. In order to select the best suppliers it is crucial to make a trade off between these tangible and intangible criteria, some of which may be contradictory. The proposed approach ...

**17 Session 2B: multiagent simulation: Agent-based interaction analysis of consumer behavior**

Lamjed Ben Said, Thierry Bouron, Alexis Drogoul

July 2002 **Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 1**

Publisher: ACM Press

Full text available:  pdf(298.65 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Our goal is to create a virtual consumer population that can be used for simulating the effects of marketing strategies in a competing market context. That requires having a consumers' behavioral model allowing the representation of observed individual behaviors and the simulation of a large population of consumers. That also requires finding the parameters' values characterizing the virtual population that reproduces real market evolutions. This paper proposes a consumer behavioral model based ...

**Keywords:** consumer behavior, multi-agent simulation

**18 Competitive market-based allocation of consumer attention space**

Sander M. Bohte, Enrico Gerding, Han La Poutré

October 2001 **Proceedings of the 3rd ACM conference on Electronic Commerce**

Publisher: ACM Press

Full text available:  pdf(252.32 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The amount of attention space available for recommending suppliers to consumers on e-commerce sites is typically limited. We present a competitive distributed recommendation mechanism based on adaptive software agents for efficiently allocating the "consumer attention space", or banners. In our approach, each agent bids in an auction for the momentary attention of each consumer. Successive auctions allow agents to rapidly adapt their bidding strategy to focus on consumers interested in their off ...

**19 Estimating campaign benefits and modeling lift**

 Gregory Piatetsky-Shapiro, Brij Masand  
August 1999 **Proceedings of the fifth ACM SIGKDD international conference on Knowledge discovery and data mining**

Publisher: ACM Press

Full text available:  pdf(1.34 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** database marketing, estimation, lift

**20 Parameterised system design based on genetic algorithms**

 Giuseppe Ascia, Vincenzo Catania, Maurizio Palesi  
April 2001 **Proceedings of the ninth international symposium on Hardware/software codesign**

Publisher: ACM Press

Full text available:  pdf(492.18 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A recent reduction in the time to market has led to the development of a new approach to IP-based design in which a highly parametric pre-designed system-on-a-chip is configured according to the application it will have to execute. The greatest problems in this area regard exploration of the range of possible system configurations in search of the optimal configuration for a given system. There are, in fact, a number of parameters involved (bus sizes, cache configurations, software algorithms ...)

**Keywords:** exploration of system configurations, genetic algorithms, parameterised systems

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## 21 [Simultaneous optimization of multiple criteria for efficient agent service brokering](#)



Aneurin M. Easwaran, Jeremy Pitt

**May 2001 [Proceedings of the fifth international conference on Autonomous agents](#)**
**Publisher:** ACM Press

 Full text available: [pdf\(116.89 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Efficient, flexible and dynamic allocation of combination of services to satisfy advanced service requirements in multi- agent systems is a crucial problem. Optimal service allocation based on a single criterion is NP- Complete. However, service requirements in general have multiple criteria that may be conflicting and noncommensurable. This paper presents a genetic algorithm for optimal anytime service allocation based on multiple criteria. The solution found by the genetic algorithm is op ...

**Keywords:** artificial market systems, brokers, electronic commerce, genetic algorithms, matchmakers, routers

## 22 [Holland classifier systems](#)



Andreas Geyer-Schulz

**June 1995 [ACM SIGAPL APL Quote Quad , Proceedings of the international conference on Applied programming languages APL '95](#), Volume 25 Issue 4**
**Publisher:** ACM Press

 Full text available: [pdf\(1.28 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A Holland classifier system is an adaptive, general purpose machine learning system which is designed to operate in noisy environments with infrequent and often incomplete feedback. Examples of such environments are financial markets, stock management systems, or chemical processes. In financial markets, a Holland classifier system would develop trading strategies, in a stock management system order heuristics, and in a chemical plant it would perform process control. In this paper we descr ...

**Keywords:** bucket brigade, classifier system, genetic algorithm, machine learning, triggered operations

## 23 [Real world applications: Interactive estimation of agent-based financial markets](#)


**models: modularity and learning**

Ihsan Ecemis, Eric Bonabeau, Trent Ashburn

**June 2005 [Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05](#)**
**Publisher:** ACM Press

Full text available: [pdf\(435.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Building upon the interactive inversion method introduced by Ashburn and Bonabeau (2004), we show how to dramatically improve the results by exploiting modularity and by letting the computer learn user preferences.

**Keywords:** agent-based modeling, interactive evolution

**24 Poster session 1: RF CMOS circuit optimizing procedure and synthesis tool**

 Chandrasekar Rajagopal, Karthik Sridhar, Adrian Nunez

April 2003 **Proceedings of the 13th ACM Great Lakes symposium on VLSI**

**Publisher:** ACM Press

Full text available: [pdf\(190.37 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we discuss a methodology to design and synthesize analog CMOS components such as RF amplifiers. The inputs of the synthesis tool are the circuit specifications described at high-level of abstraction, fabrication dependent technology parameters and un-sized circuit topologies. The output is a sized net list, which meets the user constraints. The synthesis environment considers user-defined performance parameters into account, and it relies on a genetic algorithm based heuristic meth ...

**Keywords:** CAD, RF, analog, electronics, genetic algorithm

**25 Genetic algorithms: From supervised ranking to evolving behaviours of a robotic team**

 Kai Wing Tang, Ray A. Jarvis

June 2005 **Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05**

**Publisher:** ACM Press

Full text available: [pdf\(191.87 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Using artificial evolution successfully to design behaviours of multiple robot systems has been reported in recent years. Most of such reports are focused on the design of low level controllers. Design of high level team coordination strategies is rarely covered perhaps because the design of an appropriate chromosome representation for a complex multi-agent system is not an easy task. In this paper we propose that by treating the action decisions of every team member as a supervised ranking prob ...

**Keywords:** chromosome representation, free market-based architectural approach, supervised ranking, team coordination strategy

**26 Real-world applications: poster: Candlestick stock analysis with genetic algorithms**

 Peter Belford

July 2006 **Proceedings of the 8th annual conference on Genetic and evolutionary computation GECCO '06**

**Publisher:** ACM Press

Full text available: [pdf\(102.06 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Candlestick analysis, a form of stock market technical analysis, is well suited for use with a genetic search algorithm. This paper explores an implementation of marrying these two techniques by creating agents that attempt to identify stocks that will change in price. The best of run individuals, produced by the genetic algorithm, performed statistically better than an agent that makes random investment decisions.

**Keywords:** artificial intelligence, candlestick method, genetic algorithms, stock analysis

**27 Currency exchange rate forecasting from news headlines**

Desh Peramunilleke, Raymond K. Wong

January 2002 **Australian Computer Science Communications , Proceedings of the thirteenth Australasian database conference - Volume 5 ADC '02**, Volume 24 Issue 2

**Publisher:** Australian Computer Society, Inc., IEEE Computer Society Press

Full text available: [pdf\(797.48 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We investigate how money market news headlines can be used to forecast intraday currency exchange rate movements. The innovation of the approach is that, unlike analysis based on quantifiable information, the forecasts are produced from text describing the current status of world financial markets, as well as political and general economic news. In contrast to numeric time series data textual data contains not only the effect (e.g., the dollar rises against the Deutschmark) but also the possible ...

**Keywords:** data mining, foreign exchange, prediction

**28 Real world applications: Classification of human decision behavior: finding modular decision rules with genetic algorithms**

 Franz Rothlauf, Daniel Schunk, Jella Pfeiffer

June 2005 **Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05**

**Publisher:** ACM Press

Full text available: [pdf\(185.42 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In search tasks, for example when individuals search for the best price of a product, individuals are confronted in sequential steps with different situations and they have to decide whether to continue or stop searching. The decision behavior of individuals in such search tasks is described by a search strategy. This paper presents a new approach of finding high-quality search strategies by using genetic algorithms (GAs). Only the structure of the search strategies and the basic building blocks ...

**Keywords:** genetic algorithms, human decision behavior, search strategy

**29 Analysis of recommendation algorithms for e-commerce**

 Badrul Sarwar, George Karypis, Joseph Konstan, John Riedl

October 2000 **Proceedings of the 2nd ACM conference on Electronic commerce**

**Publisher:** ACM Press

Full text available: [pdf\(463.39 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**30 Adaptive agents in a persistent shout double auction**

 Chris Preist, Maarten van Tol

October 1998 **Proceedings of the first international conference on Information and computation economies**

**Publisher:** ACM Press

Full text available: [pdf\(1.01 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** adaptive behaviour, agents, double auction, electronic trading, negotiation

**31 Learning Classifier systems and other genetics-based machine learning: posters:**

 Evolving cooperative behavior in a power market

Dipti Srinivasan, Dakun Woo, Lily Rachmawati, Kong Wei Lye

July 2006 **Proceedings of the 8th annual conference on Genetic and evolutionary computation GECCO '06**

**Publisher:** ACM Press

Full text available: Additional Information:

 pdf(244.75 KB)[full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents an evolutionary algorithm to develop cooperative strategies for power buyers in a deregulated electrical power market. Cooperative strategies are evolved through the collaboration of the buyer with other buyers defined by the different group memberships. The paper explores how buyers can lower their costs by using the algorithm that evolves their group sizes and memberships. The algorithm interfaces with PowerWorld Simulator to include in the technical aspect of a power syste ...

**Keywords:** cooperative behavior, evolutionary algorithm, power market

**32 Poster session III: A two-stage genetic algorithm method for optimization the  $\Sigma\Delta$  modulators**

 A. Zahabi, O. Shoaei, Y. Koolivand, P. Jabehdar-maralani  
January 2005 **Proceedings of the 2005 conference on Asia South Pacific design automation ASP-DAC '05**

**Publisher:** ACM Press

Full text available:  pdf(434.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

A two-stage optimization approach for the design of  $\Sigma\Delta$  Modulators using Genetic Algorithm has been proposed. The conversion speed and consumed CPU time of the design process have been reduced significantly by utilizing the combination of an equation-based and a high-level simulation-based genetic algorithm. The proper circuit specifications of the modulator are obtained by using a new idea called gene-dependent fitness function which takes some circuit-level non-idealities into accou ...

**33 Design and implementation of a parallel genetic algorithm for the travelling purchaser problem**

 Luiz S. Ochi, Lucia M. A. Drummond, Rosa M. V. Figueiredo  
April 1997 **Proceedings of the 1997 ACM symposium on Applied computing**

**Publisher:** ACM Press

Full text available:  pdf(371.62 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** genetic algorithms, parallel processing

**34 Principles and applications of chaotic systems**

 William Ditto, Toshinori Munakata  
November 1995 **Communications of the ACM**, Volume 38 Issue 11

**Publisher:** ACM Press

Full text available:  pdf(319.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

There lies a behavior between rigid regularity and randomness based on pure chance. It's called a chaotic system, or chaos for short [5]. Chaos is all around us. Our notions of physical motion or dynamic systems have encompassed the precise clock-like ticking of periodic systems and the vagaries of dice-throwing chance, but have often been overlooked as a way to account for the more commonly observed chaotic behavior between these two extremes. When we see ...

**35 Evolutionary co-operative design between human and computer: implementation of "the genetic sculpture park"**

 Duncan Rowland, Frank Biocca  
February 2000 **Proceedings of the fifth symposium on Virtual reality modeling language (Web3D-VRML)**

**Publisher:** ACM Press

Full text available:  pdf(1.98 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Genetic Sculpture Park seeks to blur the distinction between artist and observer and to empower the novice in the creation of complex computer graphic models. Each visitor to the park experiences a unique set of forms and engages in a co-operative dialogue with the computer to produce more aesthetically pleasing designs. Inspired by Darwin's Theory of Evolution, Genetic Algorithms are used to allow visitors to 'breed' forms tailored to his or her own individual sense of aesthetics. This ...

### **36 Real world applications: A genetic algorithm approach to the selection of near-optimal subsets from large sets**



P. Whiting, P. W. Poon, J. N. Carter

June 2005 **Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05**

**Publisher:** ACM Press

Full text available: [pdf\(62.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The problem attempted in this paper is to select a sample from a large set where the sample is required to have a particular average property. The problem can be expressed as an optimisation problem where one selects a subset of  $r$  objects from a group of  $n$  objects and the objective function is the mismatch between the required average property and that of a proposed sample. We test our method on a real-life problem which arises when we model the assets of a life insurance company i ...

**Keywords:** economics, genetic algorithm, sampling, selection

### **37 Estimation of distribution algorithms: Sub-structural niching in estimation of distribution algorithms**



Kumara Sastry, Hussein A. Abbass, David E. Goldberg, D. D. Johnson

June 2005 **Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05**

**Publisher:** ACM Press

Full text available: [pdf\(363.19 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We propose a sub-structural niching method that fully exploits the problem decomposition capability of linkage-learning methods such as the estimation distribution algorithms and concentrate on maintaining diversity at the sub-structural level. The proposed method consists of three key components: (1) Problem decomposition and sub-structure identification, (2) sub-structure fitness estimation, and (3) sub-structural niche preservation. The sub-structural niching method is compared to restricted ...

**Keywords:** building blocks, eCGA, estimation of distribution algorithms, fitness approximation, fitness estimation, genetic algorithms, multimodal, multiobjective, niching, probabilistic models

### **38 Evolving computer programs using rapidly reconfigurable field-programmable gate arrays and genetic programming**



John R. Koza, Forest H. Bennett, Jeffrey L. Hutchings, Stephen L. Bade, Martin A. Keane, David Andre

March 1998 **Proceedings of the 1998 ACM/SIGDA sixth international symposium on Field programmable gate arrays**

**Publisher:** ACM Press

Full text available: [pdf\(1.37 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes how the massive parallelism of the rapidly reconfigurable Xilinx XC6216 FPGA (in conjunction with Virtual Computing's H.O.T. Works board) can be exploited to accelerate the time-consuming fitness measurement task of genetic algorithms and genetic programming. This acceleration is accomplished by embodying each individual of the evolving population into hardware in order to perform the fitness measurement task. A 16-step sorting network for seven items was evolved that h ...

**39 The POPCORN market—an online market for computational resources** Ori Regev, Noam NisanOctober 1998 **Proceedings of the first international conference on Information and computation economies****Publisher:** ACM PressFull text available:  pdf(1.12 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** Internet, Java, global computation, markets, resource allocation**40 Introduction & overview of "artificial life"—evolving intelligent agents for modeling & simulation** A. Martin WildbergerNovember 1996 **Proceedings of the 28th conference on Winter simulation****Publisher:** ACM PressFull text available:  pdf(987.66 KB) Additional Information: [full citation](#), [references](#)

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**41 Finding effective optimization phase sequences**

Prasad Kulkarni, Wankang Zhao, Hwashin Moon, Kyunghwan Cho, David Whalley, Jack Davidson, Mark Bailey, Yunheung Paek, Kyle Gallivan  
 June 2003 **ACM SIGPLAN Notices**, Proceedings of the 2003 ACM SIGPLAN conference on Language, compiler, and tool for embedded systems LCTES '03, Volume 38 Issue 7

**Publisher:** ACM PressFull text available: [pdf\(703.12 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

It has long been known that a single ordering of optimization phases will not produce the best code for every application. This phase ordering problem can be more severe when generating code for embedded systems due to the need to meet conflicting constraints on time, code size, and power consumption. Given that many embedded application developers are willing to spend time tuning an application, we believe a viable approach is to allow the developer to steer the process of optimizing a function ...

**Keywords:** genetic algorithms, interactive compilation, phase ordering**42 Meta-heuristics and local search: Evolutionary rule-based system for IPO underpricing prediction**

David Quintana, Cristóbal Luque, Pedro Isasi  
 June 2005 **Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05**

**Publisher:** ACM PressFull text available: [pdf\(306.64 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Academic literature has documented for a long time the existence of important price gains in the first trading day of initial public offerings (IPOs). Most of the empirical analysis that has been carried out to date to explain underpricing through the offering structure is based on multiple linear regression. The alternative that we suggest is a rule-based system defined by a genetic algorithm using a Michigan approach. The system offers significant advantages in two areas, 1) a higher predictive ...

**Keywords:** genetic algorithm, initial public offering, underpricing**43 Belief networks in construction simulation**

Brenda McCabe

December 1998 **Proceedings of the 30th conference on Winter simulation****Publisher:** IEEE Computer Society Press

Full text available:  pdf(104.82 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

44 An empirical study of non-binary genetic algorithm-based neural approaches for classification

Parag C. Pendharkar, James A. Rodger

January 1999 **Proceeding of the 20th international conference on Information Systems**

Publisher: Association for Information Systems

Full text available:  pdf(192.45 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



45 An agent oriented business model for e-commerce based on the NYSE specialist system



Kenneth Griggs

April 2000 **Proceedings of the 2000 ACM SIGCPR conference on Computer personnel research**

Publisher: ACM Press

Full text available:  pdf(507.08 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The rapid development of commerce on the World Wide Web has been accompanied by the creation of new business models and customer relationships involving the use of intelligent software agents. Agents are characterized by autonomy, perception, and intelligence and have been used primarily for search and data mining activities on the Web. A parallel trend in electronic commerce is the development of auction markets in contrast to traditional fixed posted price models. Web based auction market ...

**Keywords:** agents, auction markets, electronic commerce



46 Evolvable hardware chips for industrial applications



Tetsuya Higuchi, Nobuki Kajihara

April 1999 **Communications of the ACM**, Volume 42 Issue 4

Publisher: ACM Press

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47 Analysis methodology I: Integrating optimization and simulation: research and practice



Michael C. Fu, Sigrún Andradóttir, John S. Carson, Fred Glover, Charles R. Harrell, Yu-Chi Ho, James P. Kelly, Stephen M. Robinson

December 2000 **Proceedings of the 32nd conference on Winter simulation WSC '00**

Publisher: Society for Computer Simulation International

Full text available:  pdf(54.97 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The integration of optimization and simulation has become nearly ubiquitous in practice, as most discrete-event simulation packages now include some type of optimization routine. This panel session's objective was to explore the present state of the art in simulation optimization, prevailing issues for researchers, and future prospects for the field. The composition of the panel included views from both simulation software developers and academic researchers. This Proceedings paper begins with a ...



48 Software/modelware tutorials I: eM-Plant: eliminate bottlenecks with integrated analysis tools in eM-Plant



Matthias U. Heinicke, Alan Hickman

December 2000 **Proceedings of the 32nd conference on Winter simulation WSC '00**



**Publisher:** Society for Computer Simulation International

Full text available:  pdf(243.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

To build a realistic simulation model is all very well - to add real value you must identify the major difficulties and generate better alternatives. Tecnomatix Technologies, developers of eM-Plant, the object oriented simulation tool for discrete event simulation, planning and optimization of production and logistics, are the world leaders of the e-Manufacturing market. eM-Plant is used across many industries from manufacturers like BMW and Daimler-Chrysler through shipyards to international fi ...

- 49 Risk analysis: New simulation methodology for risk analysis: genetic programming with monte carlo simulation for option pricing 

N. K. Chidambaran

December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**

**Publisher:** Winter Simulation Conference

Full text available:  pdf(351.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

I examine the role of programming parameters in determining the accuracy of Genetic Programming for option pricing. I use Monte Carlo simulations to generate stock and option price data needed to develop a Genetic Option Pricing Program. I simulate data for two different stock price processes - a Geometric Brownian process and a Jump-Diffusion process. In the jump-diffusion setting, I seed the Genetic Program with the Black-Scholes equation as a starting approximation. I find that population ...

- 50 Automated negotiation for order transaction of injection mold manufacturer 

 Young Jae Park, Hyung Rim Choi, Hyun Soo Kim

September 2003 **Proceedings of the 5th international conference on Electronic commerce ICEC '03**

**Publisher:** ACM Press

Full text available:  pdf(475.22 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Today, there are several markets in cyber space where companies trade electronically due to the development of Information Technology. On the other hand, the most important thing in trades is negotiation. So, in order to support current business practices as well as new ones on the Internet, electronic commerce systems need an ability to negotiate. In this paper, proposed is a method by which a seller can be supported by an agent which plays a role in negotiation process among small and medium c ...

**Keywords:** and electronic commerce, automated negotiation, intelligent agent

- 51 NoC design and optimisation: Multi-objective mapping for mesh-based NoC architectures 

 Giuseppe Ascia, Vincenzo Catania, Maurizio Palesi

September 2004 **Proceedings of the 2nd IEEE/ACM/IFIP international conference on Hardware/software codesign and system synthesis**

**Publisher:** ACM Press

Full text available:  pdf(9.17 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we present an approach to multi-objective exploration of the mapping space of a mesh-based network-on-chip architecture. Based on evolutionary computing techniques, the approach is an efficient and accurate way to obtain the Pareto mappings that optimize performance and power consumption. Integration of the approach in an exploration framework with a kernel based on an event-driven trace-based simulator makes it possible to take account of important dynamic effects that have a grea ...

**Keywords:** genetic algorithms, mapping, multi-objective optimization, network-on-chip, simulation

52 IWLCS contributions: Evaluating the XCS learning classifier system in competitive simultaneous learning environments

 Neera P. Sood, Ashley G. Williams, Kenneth A. De Jong

June 2005 **Proceedings of the 2005 workshops on Genetic and evolutionary computation GECCO '05**

**Publisher:** ACM Press

Full text available:  pdf(208.27 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We would like to evaluate the XCS [1] Learning Classifier System (LCS [2]) to see if it can be applied to a specific aviation industry problem. We are interested in seeing whether it can offer an accessible representation model and evolve feasible strategies to predict future demand patterns endogenously, and in parallel with the supply side simulation.

**Keywords:** LCS, XCS, machine learning, prediction accuracy, reinforcement learning

53 Poster paper sessions: Intermediaries in an electronic trade network [Extended]

 **Abstract**

Floortje Alkemade, Han La Poutré, Hans Amman

June 2003 **Proceedings of the 4th ACM conference on Electronic commerce**

**Publisher:** ACM Press

Full text available:  pdf(80.76 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We investigate whether intermediaries can make a profit in an information economy. We use evolutionary agent-based simulations to address this issue. We model a trade network game where boundedly rational consumers have to decide which links to form to sellers (profit maximizing producers or intermediaries). Our main conclusion is that intermediaries that have better knowledge about the market than the average consumer will continue to exist and make a profit if market dynamics are sufficiently ...

**Keywords:** evolutionary algorithms, intermediaries, trade networks

54 Contributed articles on online, interactive, and anytime data mining: MobiMine:

 **monitoring the stock market from a PDA**

Hillol Kargupta, Byung-Hoon Park, Sweta Pittie, Lei Liu, Deepali Kushraj, Kakali Sarkar

January 2002 **ACM SIGKDD Explorations Newsletter**, Volume 3 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(1.16 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper describes an experimental mobile data mining system that allows intelligent monitoring of time-critical financial data from a hand-held PDA. It presents the overall system architecture and the philosophy behind the design. It explores one particular aspect of the system---automated construction of personalized focus area that calls for user's attention. This module works using data mining techniques. The paper describes the data mining component of the system that employs a novel Four ...

55 Commodity trading using an agent-based iterated double auction

 Chris Preist

April 1999 **Proceedings of the third annual conference on Autonomous Agents**

**Publisher:** ACM Press

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56 The agent service brokering problem as a generalised travelling salesman problem

 Aneurin M. Easwaran, Jeremy Pitt, Stefan Poslad

April 1999 **Proceedings of the third annual conference on Autonomous Agents**

**Publisher:** ACM Press

Full text available:  pdf(256.62 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** & routers, artificial market systems and electronic commerce, brokers, middle-agents-e.g. matchmakers

**57 Poster paper sessions: Improving learning performance by applying economic knowledge**

 H. Brooks, Robert S. Gazzale, Jeffrey K. MacKie Mason, Edmund H. Durfee  
June 2003 **Proceedings of the 4th ACM conference on Electronic commerce**

**Publisher:** ACM Press

Full text available:  pdf(948.55 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** bundling, information goods, niche markets

**58 Intelligent hybrid systems for financial decision making**

 Suran Goonatilake  
February 1995 **Proceedings of the 1995 ACM symposium on Applied computing**

**Publisher:** ACM Press

Full text available:  pdf(548.59 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

**59 Randomized Variable Elimination**

David J. Stracuzzi, Paul E. Utgoff  
December 2004 **The Journal of Machine Learning Research**, Volume 5

**Publisher:** MIT Press

Full text available:  pdf(273.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Variable selection, the process of identifying input variables that are relevant to a particular learning problem, has received much attention in the learning community. Methods that employ a learning algorithm as a part of the selection process (wrappers) have been shown to outperform methods that select variables independently from the learning algorithm (filters), but only at great computational expense. We present a randomized wrapper algorithm whose computational requirements are within a c ...

**60 A First Step Towards Hw/Sw Partitioning of UML Specifications**

W. Fornaciari, P. Micheli, F. Salice, L. Zampella  
March 2003 **Proceedings of the conference on Design, Automation and Test in Europe - Volume 1 DATE '03**

**Publisher:** IEEE Computer Society

Full text available:  pdf(152.18 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)  
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This paper proposes a novel methodology tailored to design embedded systems, taking into account the emerging market needs, such as hw/sw partitioning, object-oriented specifications, overall design costs and early analysis of design alternatives. The proposal tackles the problem by considering UML as the starting point for system-level description and uses a customization of Function Point analysis and COCOMO to provide cost metrics both for hardware and software. Finally, a genetic algorithm is ...

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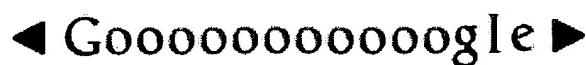
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